

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE2004/002685

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D53/70 B01D53/81 F23G7/06 F28D17/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D F23G F28D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 06, 4 June 2002 (2002-06-04) & JP 2002 061822 A (CHUGAI RO CO LTD), 28 February 2002 (2002-02-28) abstract	1, 13, 17
A	----- US 3 870 474 A (HOUSTON ET AL) 11 March 1975 (1975-03-11) column 2, line 19 - column 3, line 31 column 3, line 63 - column 7, line 54 column 8, line 37 - column 9, line 26; figures 1-7, 10 ----- -/-	1-17

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

27 May 2005

Date of mailing of the international search report

02/06/2005

Name and mailing address of the ISA

European Patent Office, P B 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Maremonti, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 940 567 A (OHLMEYER ET AL) 10 July 1990 (1990-07-10) column 2, line 13 - column 5, line 38 column 6, line 4 - column 9, line 59; figures 1,5 -----	1-17
A	US 4 535 551 A (GROENEVELD ET AL) 20 August 1985 (1985-08-20) column 1, lines 13-19 column 2, line 27 - column 3, line 16; figure 1 -----	1-17

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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